BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: ***Estimate for Improvements to Roads and Drains at Vidyaranyapura Main Road and Cross Roads and Surrounding areas in Ward No. 09 (Vidyaranyapura).***

Job Code: 009-21-000004
PCode: P-2178

Estimated Cost Rs. 87.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at Vidyaranyapura Main Road and Cross Roads and Surrounding areas in Ward No. 09 (Vidyaranyapura).

009-21-000004		P-2178				Est Cost Rs.		8700000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	Drain Desliting								
	HMT Layout 2nd Block 10th Main Road		2	93.00	0.45	0.45	37.67		
	HMT Layout 2nd Block 3rd Cross Road		2	120.00	0.45	0.45	48.60		
	HMT Layout 2nd Block 8th Main Road		2	175.00	0.45	0.45	70.88		
			2	215.00	0.45	0.45	87.08		
	NTI Layout 1st Cross Road		2	117.00	0.45	0.45	47.39		
	NTI Layout 2nd Cross Road		2	117.00	0.45	0.45	47.39		
	NTI Layout 10th Main Road		2	160.00	0.45	0.45	64.80		
	NTI Layout 11th Main Road		2	228.00	0.45	0.45	92.34		
	NTI Layout 5th Cross Road		2	165.00	0.45	0.45	66.83		
			2	112.00	0.45	0.45	45.36		
	Berm cutting								
	HMT Layout 2nd Block 10th Main Road		2	93.00	0.90	0.20	33.48		
	HMT Layout 2nd Block 3rd Cross Road		2	120.00	0.90	0.20	43.20		
	HMT Layout 2nd Block 8th Main Road		2	175.00	0.90	0.20	63.00		
			2	215.00	0.90	0.20	77.40		
	NTI Layout 1st Cross Road		2	117.00	0.90	0.20	42.12		
	NTI Layout 2nd Cross Road		2	117.00	0.90	0.20	42.12		
	NTI Layout 10th Main Road		2	160.00	0.90	0.20	57.60		
	NTI Layout 11th Main Road		2	228.00	0.90	0.20	82.08		
	NTI Layout 5th Cross Road		2	165.00	0.90	0.20	59.40		
			2	112.00	0.90	0.20	40.32		
	Basic Rate	130.00					**1149.03**	243.88	**280225.00**
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
	Total	**243.88**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	HMT Layout 2nd Block 10th Main Road		2	93.00		1.35	251.10		
	HMT Layout 2nd Block 3rd Cross Road		2	120.00		1.35	324.00		
	HMT Layout 2nd Block 8th Main Road		2	175.00		1.35	472.50		
			2	215.00		1.35	580.50		
	NTI Layout 1st Cross Road		2	117.00		1.35	315.90		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	NTI Layout 2nd Cross Road		2	117.00		1.35	315.90		
	NTI Layout 10th Main Road		2	160.00		1.35	432.00		
	NTI Layout 11th Main Road		2	228.00		1.35	615.60		
	NTI Layout 5th Cross Road		2	165.00		1.35	445.50		
			2	112.00		1.35	302.40		
							4055.40		
	Consider 30% of the total qty						1216.62		
	Basic Rate	105.00					**1216.62**	111.30	**135410.00**
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs 10%			Vide Item No. 2			119.23		
	Basic Rate	700.00					**119.23**	742.00	**88468.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
	Bed Concrete								
	HMT Layout 2nd Block 10th Main Road		2x2	93.00	0.30	0.10	11.16		
	HMT Layout 2nd Block 3rd Cross Road		2x2	120.00	0.30	0.10	14.40		
	HMT Layout 2nd Block 8th Main Road		2x2	175.00	0.30	0.10	21.00		
			2x2	215.00	0.30	0.10	25.80		
	NTI Layout 1st Cross Road		2x2	117.00	0.30	0.10	14.04		
	NTI Layout 2nd Cross Road		2x2	117.00	0.30	0.10	14.04		
	NTI Layout 10th Main Road		2x2	160.00	0.30	0.10	19.20		
	NTI Layout 11th Main Road		2x2	228.00	0.30	0.10	27.36		
	NTI Layout 5th Cross Road		2x2	165.00	0.30	0.10	19.80		
			2x2	112.00	0.30	0.10	13.44		
							180.24	5421.90	**977243.00**
	Basic Rate	5115.00							
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSBR 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	For Flagging Course								
	HMT Layout 2nd Block 10th Main Road		2x2	93.00		0.40	148.80		
	HMT Layout 2nd Block 3rd Cross Road		2x2	120.00		0.40	192.00		
	HMT Layout 2nd Block 8th Main Road		2x2	175.00		0.40	280.00		
			2x2	215.00		0.40	344.00		
	NTI Layout 1st Cross Road		2x2	117.00		0.40	187.20		
	NTI Layout 2nd Cross Road		2x2	117.00		0.40	187.20		
	NTI Layout 10th Main Road		2x2	160.00		0.40	256.00		
	NTI Layout 11th Main Road		2x2	228.00		0.40	364.80		
	NTI Layout 5th Cross Road		2x2	165.00		0.40	264.00		
			2x2	112.00		0.40	179.20		
							2403.20	979.44	**2353790.00**
	Basic Rate	924.00							
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19**	cum							
	Bed Concrete								
	HMT Layout 2nd Block 10th Main Road		2	45.00	0.45	0.10	4.05		
	HMT Layout 2nd Block 3rd Cross Road		2	60.00	0.45	0.10	5.40		
	HMT Layout 2nd Block 8th Main Road		2	65.00	0.45	0.10	5.85		
			2	100.00	0.45	0.10	9.00		
	NTI Layout 1st Cross Road		2	55.00	0.45	0.10	4.95		
	NTI Layout 2nd Cross Road		2	55.00	0.45	0.10	4.95		
	NTI Layout 10th Main Road		2	80.00	0.45	0.10	7.20		
	NTI Layout 11th Main Road		2	100.00	0.45	0.10	9.00		
	NTI Layout 5th Cross Road		2	85.00	0.45	0.10	7.65		
			2	60.00	0.45	0.10	5.40		
	Coping Concrete								
	HMT Layout 2nd Block 10th Main Road		2x2	93.00	0.20	0.10	7.44		
	HMT Layout 2nd Block 3rd Cross Road		2x2	120.00	0.20	0.10	9.60		
	HMT Layout 2nd Block 8th Main Road		2x2	175.00	0.20	0.10	14.00		
			2x2	215.00	0.20	0.10	17.20		
	NTI Layout 1st Cross Road		2x2	117.00	0.20	0.10	9.36		
	NTI Layout 2nd Cross Road		2x2	117.00	0.20	0.10	9.36		
	NTI Layout 10th Main Road		2x2	160.00	0.20	0.10	12.80		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	NTI Layout 11th Main Road		2x2	228.00	0.20	0.10	18.24		
	NTI Layout 5th Cross Road		2x2	165.00	0.20	0.10	13.20		
			2x2	112.00	0.20	0.10	8.96		
							183.61	5599.98	**1028212.00**
	Basic Rate	5283.00							
	Area Weightage @ 6%	316.98							
	Total	**5599.98**							
7	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate.	Sqm							
	HMT Layout 2nd Block 10th Main Road		2	45.00	0.90		81.00		
	HMT Layout 2nd Block 3rd Cross Road		2	60.00	0.90		108.00		
	HMT Layout 2nd Block 8th Main Road		2	65.00	0.90		117.00		
			2	95.00	0.90		171.00		
	NTI Layout 1st Cross Road		2	55.00	0.90		99.00		
	NTI Layout 2nd Cross Road		2	55.00	0.90		99.00		
	NTI Layout 10th Main Road		2	80.00	0.90		144.00		
	NTI Layout 11th Main Road		2	90.00	0.90		162.00		
	NTI Layout 5th Cross Road		2	85.00	0.90		153.00		
			2	60.00	0.90		108.00	79.00	
				HH.150		1237	**1242.00**	2337.00	**2902554.00**
	Sub Total							1215.00	9835245.00
	GST @ 12%							769859	**7767707.00**
	Add for unforseen and rounding off	L/S						925832	**932125.00**
								SE6	**168.00**
								Total	**8700000.00**

Rupees Eighty Seven Lakh(s) Only

Technically sanctioned for Rs. 87,00,000/- Rs in Words EIGHTY SEVEN LAKH ONLY
Under P2178 SE
Job Code No. 009-21-00004
Registered as SE(Y)/TS/ 22 /2020-21 Subject to conditions contained in enclosed memo No. 22/2020-21 Dated: 15/9/2020

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

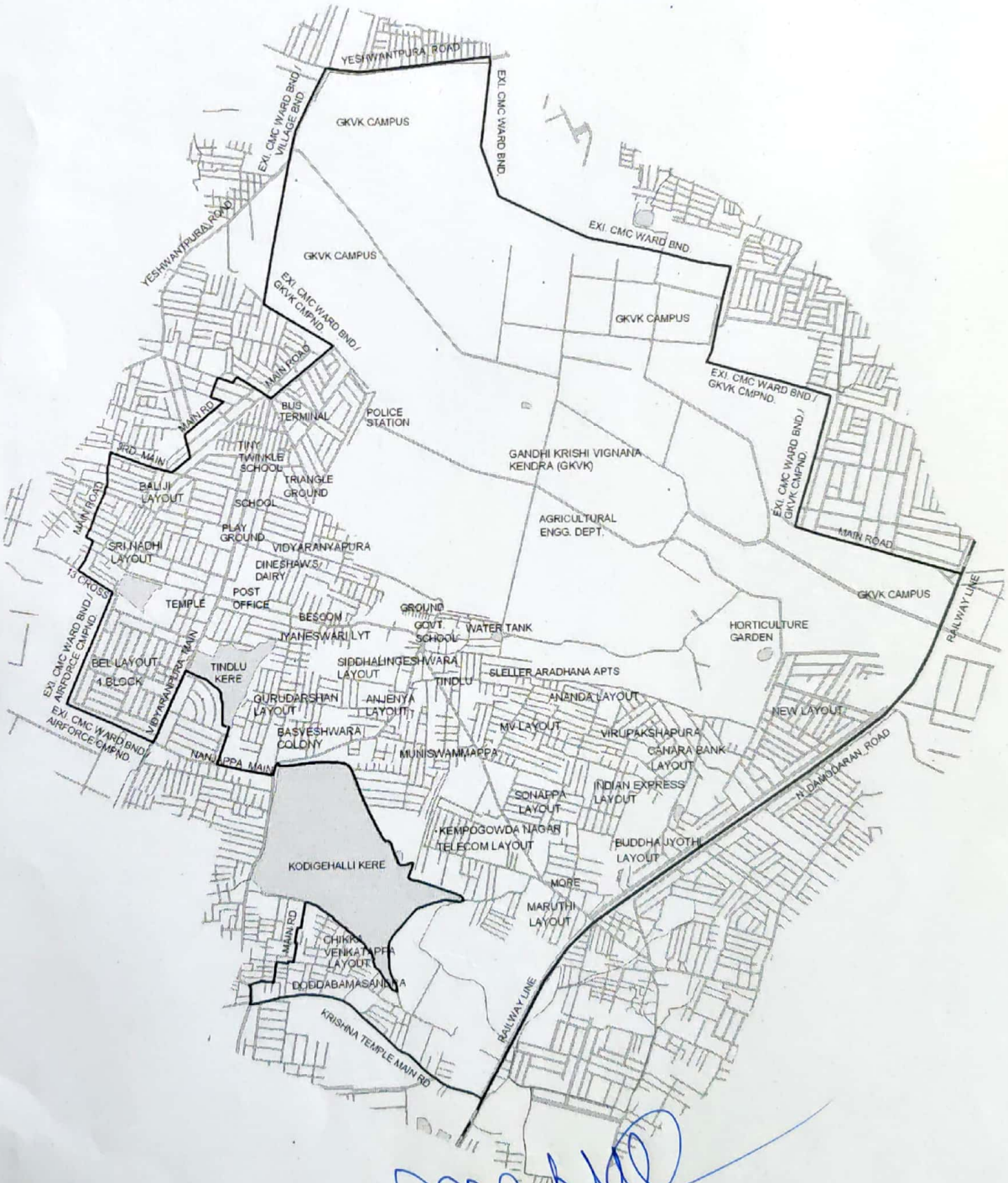
Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
19/08

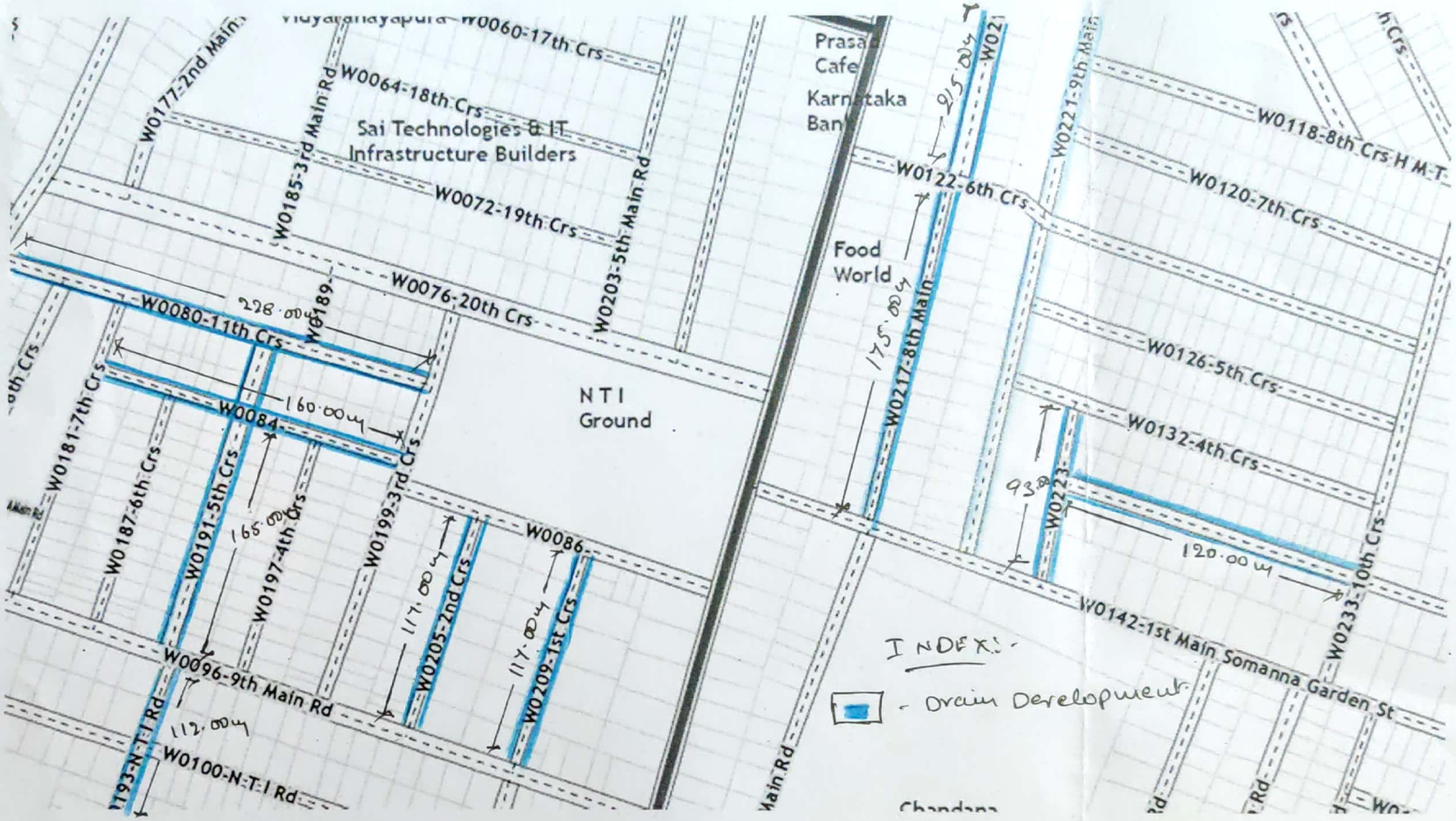
ADMINISTRATIVE APPROVAL
Accorded For Rs. 87.00 Lakhs only
Head of A/c. P2178
Div. Ref. No. 37 Date 14/9/2020
AE 14/09
EE(BTP) 14/09

152 - BYATARAYANAPURA AC
WARD NAME : 9 - VIDYARANYAPURA



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

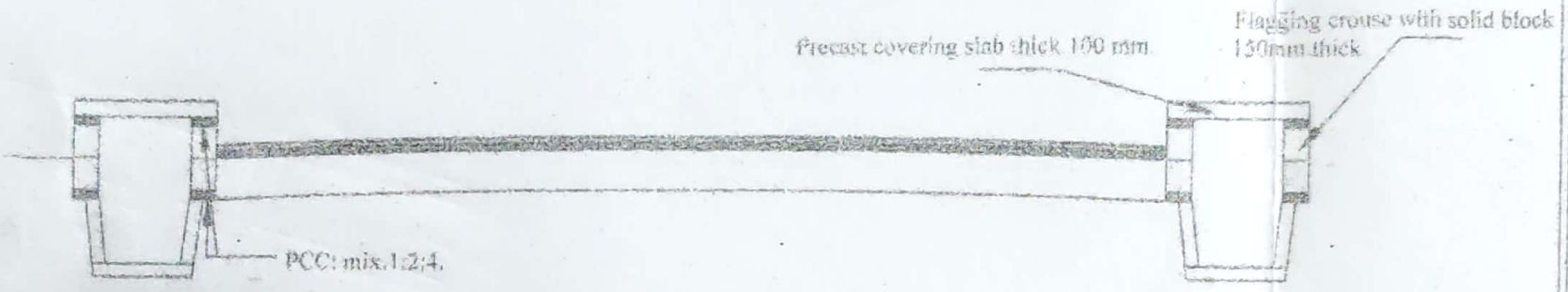
Name of work: Improvements to Roads and Drains at Vidyaranyapura Main Road and Cross Roads and Surrounding areas in Ward No. 09 (Vidyaranyapura).



Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



CROSS SECTION OF SOLID BLOCK FLAGGING COURCE OVER B S SLAB DRAIN.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97